

**Chapter Review Games and Activities**

For use after Chapter 5

**Weight and Gravity**

Your weight is a measurement of the gravitation factor between you and the planet you are on. This gravitational factor depends on your mass, the planet's mass, and the radius of the planet. Each of the nine planets has a different gravitational factor, which affects your weight on that planet.

1. Suppose a student weighs 68 pounds on Earth. Find the student's weight on the other eight planets.

Planet	Weight on Earth (lb)		Gravitational Factor		New Weight (lb)
Mercury	68	×	$\frac{19}{50}$	=	
Venus	68	×	$\frac{91}{100}$	=	
Mars	68	×	$\frac{19}{50}$	=	
Jupiter	68	×	$2\frac{27}{50}$	=	
Saturn	68	×	$1\frac{7}{100}$	=	
Uranus	68	×	$\frac{9}{10}$	=	
Neptune	68	×	$1\frac{1}{8}$	=	
Pluto	68	×	$\frac{7}{100}$	=	

2. Now find how much you would weigh on each of the other eight planets.